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ABSTRACT

10 A system and method for cooling and heating of buildings comprising an integrated
assembly of devices, including a variable speed air handler, hot water heating coil, outside air
damper, controller, and optional compressor-based air conditioner. During the summer the
15 system utilizes nighttime outside air for cooling and uses air temperature predictions to provide
information about optimal control settings and to maintain comfort. During the winter the
20 system varies airflow with heating demand and ventilates with outside air to maintain indoor air
quality.
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